

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06



Site Name: Jackpile-Paguate UraniumMine	CERCLIS ID#: NM000607033		
Alias Site Name:	280 41 9887		
Address: SR 279, Near Paguate, Laguna I	Pueblo		
City/County or Parish/State/Zip: Pagua	ate, Cibola County, New Mexico		
Report Type: PA	Date: April 2010	Author: Weston	
RECOMMENDATION:			
1. No Further Remedial Action Planned     Under Superfund (NFRAP)	☐ PA	stigation Needed Under Superfund  HRS Priority: High RI/FS Low RA	
☐ 3. Action Deferred to: ☐ RCRA ☐ ☐ 4. Site Being Addressed Under the State	To be perfo NRC e Voluntary Cleanup Program (VC		
NOTIFY AUTHORITY:	NAME OF THE OWNER OWNER OF THE OWNER OWNE	TO THE PARTY OF TH	
Removal RCRA	TSCA CAA NPDES NRC UIC SPCC	SMCRA Resource Trustee: Other:	
SEND SSSR COPIES TO:   6SF-AC	☐ 6WQ-SP ☐ ATSDR	☐ State Agency ☐ Tribal Agency	
DISCUSSION:	T-5000-0151-9-015-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
The Jackpile-Paguate Uranium Mine site is Cibola County, New Mexico. The facility is The property on which the former uranium of this property were disturbed and containe 33 proto-ore stockpiles.  The mine was operated by Anaconda Miner 1982. The mine was closed because of depres 400 million tons of rocks were moved within	located in an area of canyons and mine is located is approximately 7, at three open pits that were between als Company. Mining operations ressed uranium mining conditions. In the mine area and approximately	arroyos to the east of the village of Paguate.  868 acres in size. Approximately 2,656 acres in 200 and 300 feet deep, 32 waste dumps, and were conducted from 1953 through March During the 29 years of mining, approximately 25 million tons of uranium ore were	
Primary contaminants present in on-site sou cobalt, copper, lead, manganese, vanadium, downstream of the mine are as high as 448	rces include uranium (U-234, U-2 selenium and zinc. Concentration	as of U-238 in surface water immediately	
	g of mine waste and contouring. In 17, a ROD Compliance Assessmention had met the requirements of the	ne Environmental Impact Statement and	

addressed. Despite the reclamation of the surficial mine areas, releases from the mine are still occurring. The Pueblo of Laguna asked EPA to consider the site for the NPL.

As part of this PA, sources, ground water, surface water and air pathways were evaluated. The uranium mine was identified as the sole source on-site. Previous releases to both ground water and surface water has been documented. Groundwater wells analytical results contained fluoride, lead, arsenic, gross alpha, uranium, and Radium-226 above EPA MCLs. The closest drinking water well identified was 2.492 miles north of the site. All other nearby wells were identified to the north. Groundwater flow from the site is to the south southwest. Previous sampling of the surface water pathway revealed analytical results that contained gross alpha and uranium above EPA MCLs and manganese above secondary drinking water standards. There is no overland flow segment from the source to the in-water segments. The Rio Moquino and Rio Paguate bisect the mine and are in direct contact with the source. Elevated levels of Isotopic Uranium have been detected in the surface waters of the Rio Paguate and in the Paguate Reservoir. Fishing has been documented at the reservoir and down stream in the Rio San Jose. The levels of Isotopic Uranium could have an impact on Traditional/Cultural and Ceremonial uses of surface water bodies below the convergence of the Rio Paguate. Based on this information, further evaluation of the surface water pathway appears to be warranted. Based on the review of the PA it is recommended that a SI be conducted to further characterize the mine and to further evaluate the surface water pathway.

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Report Reviewed by:

Brenda Nixon Cook
(Site Assessment Manager)

Signature:

Date:

11/24/2010

Disposition

Approved by:

John Meyer

(Section Chief 6SF-TR)

Signature:

Date: